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In the Claims:

The current status of all claims is listed below and supersedes all previous lists of claims.

Please cancel claim 7, and amend claims 6, 8-10, 12, 14, and 17-22 as follows.

- 1-5. (canceled).
- 6. (currently amended) A process for stabilizing a pyrene actin composition comprising:
 - a) concentrating the a pyrene actin composition; and
- b) mixing the concentrated pyrene actin composition with <u>sucrose</u>, sucrose and a stabilizing agent, and a reducing agent, thereby generating a second pyrene actin composition.
- 7. (canceled).
- 8. (currently amended) The process of claim 6, wherein the composition of step b) is rapidly frozen further comprising:
 - c) rapidly freezing the second pyrene actin composition.
- 9. (currently amended) The process of claim 8, wherein said frozen composition is lyophilized further comprising:
 - d) lyophilizing the frozen second pyrene actin composition generated in step c.
- 10. (currently amended) The process of elaim 7 claim 6 wherein said reducing agent is dithiothreitol.
- 11. (previously presented) The process of claim 10, wherein the concentration of dithiothreitol is 10 mM.
- 12. (currently amended) The process of claim 8, wherein said the second pyrene actin composition is rapidly frozen in liquid nitrogen or a dry ice ethanol bath.

- 13. (previously presented) The process of claim 6, wherein said stabilizing agent is dextran.
- 14. (currently amended) The process of claim 9, wherein the <u>frozen second pyrene actin</u> composition is lyophilized for 40 hours over a temperature from -40 °C to 30 °C.
- 15. (previously presented) The process of claim 6, wherein said pyrene actin is concentrated to 0.2 to 40 mg/ml.
- 16. (previously presented) The process of claim 6, wherein said pyrene actin is concentrated to greater than 10 mg/ml.
- 17. (currently amended) The process of claim 6 wherein said pyrene actin composition of step a) comprises ATP and CaCl₂.
- 18. (currently amended) The process of claim 6 wherein said sucrose is present <u>in the second pyrene actin composition</u> in amount of 5% w/v.
- 19. (currently amended) The process of claim 6 wherein said stabilizing agent is present <u>in</u> the second pyrene actin composition in an amount of 1% w/v.
- 20. (currently amended) The process of claim 9 further comprising:
- a) e) resuspending the lyophilized and frozen second pyrene actin composition of claim 9 in A-buffer a buffer comprising 5 mM Tris pH 8, 0.2 mM CaCl₂, and 0.2 mM ATP, thereby generating a resuspended pyrene actin composition; and
 - b) <u>f</u>) incubating said resuspended pyrene actin composition on ice.
- 21. (currently amended) The method of claim 20 wherein said resuspended <u>pyrene</u> actin <u>composition</u> is centrifuged.

- 22. (currently amended) The method of claim 21 wherein said resuspended <u>pyrene</u> actin <u>composition</u> is centrifuged at 100,000 x g.
- 23-24. (cancelled).